

(C) WPI/Derwent

AN - 1979-G4608B [25]

CPY - FERM-R

DC - S02

FS - EPI

IC - G01F13/00

IN - VOSKANYAN R A

PA - (FERM-R) FERMENT PRODUCT RES

PN - SU627334 A 19780821 DW197930 000pp

PR - SU19772488220 19770526

XIC - G01F-013/00

AB - SU-627334 Methods is for processing and metering different materials in transit through dispensing, mixing and size reducing appts. used in the chemical, food and building industries.

- Its advantages are more effective reducing capability with material of different physical parameters, and making mixtures of them possible.
- This is achieved upon reduction and halting the swirling action employed, when at a rotation frequency 300-500 vol/min. The frequency is then reapplied at 2000 vol/min and higher, whereupon a transfer occurs of chaotic state elements, because of their additional reflections.
- The activity of processed material produces operational particles in a variable magnetic field pulsating at 0.5 - 30 pulses per second, superimposed on a d.c. magnetic field.
- Dispersal and metering of powders for medicinal preparations are made possible by use of balls of magneto-strictive materials such as ballbearings. These are accommodated in the alternating magnetic field at 50 Hz, simultaneous with the superimposed d.c. magnetic field. The balls then transfer to chaotic state.
- In another variation, the operational ball shaped particles used, are developed from thermoplastic material, e.g., silicon compound, resin.

IW - TEMPER POWDER PARTICLE SIZE REDUCE PRODUCE RANDOM STATE PARTICLE THROUGH SUPERIMPOSED DC MAGNETIC FIELD ALTERNATE MAGNETIC FIELD

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INW - VOSKANYAN R A

NC - 001

OPD - 1977-05-26

ORD - 1978-08-21

PAW - (FERM-R) FERMENT PRODUCT RES

TI - Tempering and powder particle size reduction - by producing random state particles through superimposing DC magnetic field on alternating magnetic field